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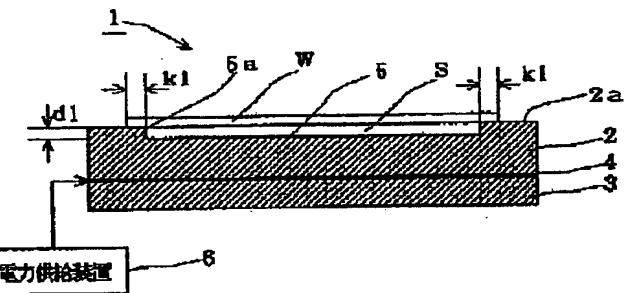
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APPLICANT : DAINIPPON SCREEN MFG CO LTD;

INVENTOR : YONEZAWA TAKESHI;

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TITLE : HEAT-TREATMENT APPARATUS



ABSTRACT : PURPOSE: To provide a proximity-system heat treatment apparatus wherein a disturbance due to a current of air is excluded, a drop in the speed of a temperature rise is prevented and a substrate can be heated uniformly.

CONSTITUTION: A recessed part 5 which is smaller than the outside of a substrate W is formed on the surface of a heating plate 2, and the substrate W is placed on the heating plate 2. An air layer S in a nearly airtight state is formed between the recessed part 5 and the substrate W, electric power is supplied to a face heating heater 4, the heating plate 2 is heated, and the substrate W is radiation-heated via the air layer S. Thereby, since the air layer is in the airtight state, it is not affected by a current of air at the outside, the temperature distribution of the substrate can be maintained uniformly, and the speed of a temperature rise is not degraded.

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